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(abstract)

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## (54) INTERNALLY INSERTING MEDICAL APPARATUS

## (57)Abstract:

PURPOSE: To prevent the deflection of a flexible shaft and precisely move a linear moving body mounted on the top end of the flexible shaft within a range of a set quantity by elastically energizing a linear driving means for pushing and pulling the flexible shaft provided on other end side of the flexible shaft and the linear moving body provided on the top end side part of a hollow member toward the top end side of the hollow member.

CONSTITUTION: A piston 22 as a linear moving body is connected to the top end of a flexible shaft 11. The piston 22 has a plurality of truncated conical members 22a constituted in the form in which their larger diameter parts are axially continued toward the top end side, with the vertical sectional side having nearly a saw-tooth form. In an injection catheter 4, a spring 25 as an energizing means energized in the extending direction is mounted between an injection catheter 4 and an integrated connector 24 to energize the flexible shaft 11 in such a manner that the flexible shaft is pulled toward an injection hole 4a. Hence, the deflection of the flexible shaft when pushed and pulled is prevented, and the following property of the linear moving body is increased.

